FULL ESTIMATED COST 34.65 34.80

FILE 'CAPLUS' ENTERED AT 14:52:39 ON 29 JUN 1999
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FILE COVERS 1967 - 29 Jun 1999 VOL 131 ISS 1
FILE LAST UPDATED: 29 Jun 1999 (19990629/ED)

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=> s 176591-03-0/rn

1 176591-03-0
0 176591-03-0D
L3 1 176591-03-0/RN
(176591-03-0 (NOTL) 176591-03-0D)

=> d bib ab

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 1999 ACS
AN 1996:295079 CAPLUS
DN 124:352673
TI Recombinant production and purification of hepatitis C virus envelope proteins for diagnostic and therapeutic use
IN Maertens, Geert; Bosman, Fons; De Martynoff, Guy; Buyse, Marie-Ange
PA Innogenetics N.V., Belg.
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9604385	A2	19960215	WO 95-EP3031	19950731
	WO 9604385	A3	19960307		
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2172273	AA	19960215	CA 95-2172273	19950731
	AU 9533824	A1	19960304	AU 95-33824	19950731
	EP 721505	A1	19960717	EP 95-930434	19950731
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09503396	T2	19970408	JP 95-506189	19950731

BR 9506059 A 19971028 BR 95-6059 19950731
PRAI EP 94-870132 19940729
WO 95-EP3031 19950731
AB Envelope proteins E1 and E2 of hepatitis C virus (HCV), their recombinant prodn. and purifn., their fragments and engineered derivs., their antigenic epitope peptides, their monoclonal antibodies, and their use for diagnostic and therapeutic means are provided. A method is described for purifying recombinant HCV single or specific oligomeric envelope proteins, characterized in that upon lysing the transformed host cells to isolate the recombinantly expressed protein a disulfide bond cleavage or redn. step is carried out with a disulfide bond cleavage agent (such as dithiothreitol and/or Empigen BB) and an SH group protecting agent (such as N-ethylmaleimide). Various forms of the E1 and E2 proteins are constructed by std. genetic techniques using vaccinia virus recombination vectors; such proteins are specific for various HCV genotypes, may delete the hydrophobic region from E1, or remove various glycosylation sites; they may also add factor Xa cleavage sites and His6 tags for improved purifn. Epitope (such as F, G, H, and I) peptides are used to generate monoclonal antibodies and to monitor disease progression in patients. Furthermore, the HCV E1 protein and peptides are used for prognosing and monitoring the clin. effectiveness and/or clin. outcome of HCV treatment.

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.70	40.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.54	-0.54

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:54:19 ON 29 JUN 1999

SEQ ID 93

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=> s yevrnvsgiyhvtndcsnssivyeaadmimhtpgcgk/sqsp

L1            1 YEVRNVSGIYHVTNDCSNSSIVYEAADMIMHTPGCGK/SQSP

=> d


L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 1999 ACS
RN   176591-03-0  REGISTRY
CN   L-Lysine, L-tyrosyl-L-.alpha.-glutamyl-L-valyl-L-arginyl-L-asparaginyl-L-

valyl-L-serylglycyl-L-isoleucyl-L-tyrosyl-L-histidyl-L-valyl-L-threonyl-L-

asparaginyl-L-.alpha.-aspartyl-L-cysteinyl-L-seryl-L-asparaginyl-L-seryl-L-

seryl-L-isoleucyl-L-valyl-L-tyrosyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-

.alpha.-aspartyl-L-methionyl-L-isoleucyl-L-methionyl-L-histidyl-L-threonyl-
     L-prolylglycyl-L-cysteinylglycyl- (9CI)  (CA INDEX NAME)
FS   PROTEIN SEQUENCE
MF   C172 H266 N48 O58 S4
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
               1 REFERENCES IN FILE CA (1967 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d sqd


L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 1999 ACS
RN   176591-03-0  REGISTRY
FS   PROTEIN SEQUENCE
SQL  37

SEQ      1 YEVRNVSGIY HVTNDCSNSS IVYEAADMIM HTPGCGK
           ========== ========== ========== =======
HITS AT:   1-37

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         3533 SQL=37
L2          1 YEVRNVSGIYHVTNDCSNSSIVYEAADMIMHTPGCGK/SQEFP
               (YEVRNVSGIYHVTNDCSNSSIVYEAADMIMHTPGCGK/SQEFP AND SQL=37)

=> file caplus

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
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SEQ ID NO 56

For Ref
EP388232

L1 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2000 ACS
RN 133403-44-8 REGISTRY
FS PROTEIN SEQUENCE
SQL 51

SEQ 1 ALAHGVRVLE DGVNYATGNL PGCSFSIFLL ALLSCLTVPA SAYQVRNSTG
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51 L
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HITS AT: 32-51

4 pgs

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=> s 133403-44-8/rn

             1 133403-44-8
             0 133403-44-8D
L3           1 133403-44-8/RN
                 (133403-44-8 (NOTL) 133403-44-8D )

=> d bib ab


L3   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2000 ACS
AN   1991:222815  CAPLUS
DN   114:222815
TI   Cloning and expression of partial cDNA sequences of hepatitis virus C,
     purification of the protein products, and their use as diagnostics and
     vaccines
IN   Houghton, Michael; Choo, Qui Lim; Kuo, George
PA   Chiron Corp., USA
SO   Eur. Pat. Appl., 84 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 7
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
     ---------------    ----  --------       ---------------  --------
PI   EP 388232          A1    19900919       EP 1990-302866   19900316
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
     WO 9011089         A1    19901004       WO 1990-US1348   19900315
         W:  AU, FI, HU, JP, KR, NO, SU
     AU 9052783         A1    19901022       AU 1990-52783    19900315
     AU 640920          B2    19930909
     HU 54896           A2    19910429       HU 1990-2814     19900315
     JP 04504715        T2    19920820       JP 1990-505094   19900315
     JP 09215497        A2    19970819       JP 1996-237015   19900315
     JP 10295389        A2    19981110       JP 1998-93768    19900315
     JP 10309197        A2    19981124       JP 1998-93767    19900315
     JP 2000039434      A2    20000208       JP 1999-157192   19900315
     DD 297446          A5    19920109       DD 1990-338836   19900316
     EP 1034785         A2    20000913       EP 2000-109602   19900316
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
     CA 2012482         AA    19900917       CA 1990-2012482  19900319
     EP 414475          A1    19910227       EP 1990-309120   19900821
     EP 414475          B1    19971210
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
     AT 161041          E     19971215       AT 1990-309120   19900821
     ES 2110411         T3    19980216       ES 1990-309120   19900821
     CA 2064705         AA    19910226       CA 1990-2064705  19900822
     CA 2064705         C     19990406
     WO 9102820         A1    19910307       WO 1990-US4766   19900822
         W:  AU, CA, JP
     AU 9063449         A1    19910403       AU 1990-63449    19900822
     AU 655156          B2    19941208
     JP 05502156        T2    19930422       JP 1990-512531   19900822
     NO 9004712         A     19901030       NO 1990-4712     19901030
     WO 9115771         A1    19911017       WO 1991-US2225   19910329
         W:  AU, BB, BG, BR, CA, FI, GB, HU, JP, KP, KR, LK, MC, MG, MW, NO,
             PL, RO, SD, SU
         RW: BF, BJ, CF, CG, CM, GA, ML, MR, SN, TD, TG
     AU 9176510         A1    19911030       AU 1991-76510    19910329
     AU 639560          B2    19930729
     GB 2257784         A1    19930120       GB 1992-20480    19910329
```

	BR 9106309	A	19930420	BR 1991-6309	19910329
	HU 62706	A2	19930528	HU 1992-3146	19910329
	HU 217025	B	19991129		
	JP 05508219	T2	19931118	JP 1991-507636	19910329
	JP 2733138	B2	19980330		
	RO 109916	B1	19950728	RO 1975-92012	19910329
	PL 172133	B1	19970829	PL 1991-296329	19910329
	RU 2130969	C1	19990527	RU 1991-5053084	19910329
	EP 450931	A1	19911009	EP 1991-302910	19910403
	EP 450931	B1	19960612		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	EP 693687	A1	19960124	EP 1995-114016	19910403
	EP 693687	B1	19990728		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 139343	E	19960615	AT 1991-302910	19910403
	ES 2088465	T3	19960816	ES 1991-302910	19910403
	AT 182684	E	19990815	AT 1995-114016	19910403
	ES 2134388	T3	19991001	ES 1995-114016	19910403
	US 5683864	A	19971104	US 1992-910760	19920707
	NO 9203839	A	19921119	NO 1992-3839	19921001
	US 5714596	A	19980203	US 1993-40564	19930331
	LV 10344	B	19960220	LV 1993-4381	19930531
	US 5679342	A	19971021	US 1993-97853	19930727
	US 5350671	A	19940927	US 1993-103961	19930809
	AU 9347505	A1	19931216	AU 1993-47505	19930921
	AU 666767	B2	19960222		
	AU 9347506	A1	19931216	AU 1993-47506	19930921
	AU 666576	B2	19960215		
	AU 9347504	A1	19940120	AU 1993-47504	19930921
	AU 666766	B2	19960222		
	LT 3808	B	19960325	LT 1993-1747	19931230
	JP 07101986	A2	19950418	JP 1994-12988	19940204
	JP 07145194	A2	19950606	JP 1994-61370	19940330
	US 5698390	A	19971216	US 1994-306472	19940915
	US 6074816	A	20000613	US 1994-307273	19940916
	US 5968775	A	19991019	US 1995-438435	19950510
	US 5712087	A	19980127	US 1995-440519	19950512
	US 5712088	A	19980127	US 1995-440769	19950515
	US 6027729	A	20000222	US 1995-440755	19950515
	US 6096541	A	20000801	US 1995-441026	19950515
	US 5863719	A	19990126	US 1995-472821	19950607
	NO 9600741	A	19960223	NO 1996-741	19960223
	NO 9600742	A	19960223	NO 1996-742	19960223
	FI 9801381	A	19980615	FI 1998-1381	19980615

PRAI	US 1989-325338	19890317
	US 1989-341334	19890420
	US 1989-355002	19890518
	US 1987-122714	19871118
	US 1987-139886	19871230
	US 1988-161072	19880226
	US 1988-191263	19880506
	US 1988-263584	19881026
	US 1988-271450	19881114
	WO 1988-US4125	19881118
	US 1989-353896	19890421
	US 1989-355961	19890518
	US 1989-398667	19890825
	US 1989-456637	19891221
	JP 1990-505094	19900315
	JP 1996-237015	19900315
	JP 1998-93767	19900315
	WO 1990-US1348	19900315
	EP 1990-302866	19900316
	US 1990-504352	19900404
	US 1990-505435	19900404
	US 1990-566209	19900808

WO	1990-US4766	19900822
NO	1990-4712	19901030
US	1990-611965	19901108
WO	1991-US2225	19910329
EP	1991-302910	19910403
US	1992-910760	19920707
US	1993-40564	19930331
US	1993-97853	19930727
US	1993-103961	19930809
US	1994-306472	19940915

AB A partial cDNA sequence of hepatitis virus C (HVC) is cloned and sequenced. Several open reading frames (ORF) are expressed and the protein products purified. The cDNA, the protein, and antibodies thereto can be used as diagnositics or vaccines (no data). CDNA clones for several ORF were isolated from a previously constructed .lambda.gt-11 library and a new pi library using synthetic DNA probes. An HVC cDNA sequence was compiled based on these clones. The epitopes manufd. by recombinant yeast or Escherichia coli were immunogenically reactive to the sera of the HVC-infected patients.

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=> s 153299-59-3/rn

             1 153299-59-3
             1 153299-59-3D
L11          0 153299-59-3/RN
                 (153299-59-3 (NOTL) 153299-59-3D )

=> s 153299-59-3

 REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.



L13          1 L12


=> d bib ab


L13  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2000 ACS
AN   1994:161617  CAPLUS
DN   120:161617
TI   Process for the determination of peptides corresponding to immunologically
     important epitopes and their use in a process for determination of
     antibodies, or biotinylated peptides corresponding to immunologically
     important epitopes, a process for preparing them and compositions
     containing them
IN   De Leys, Robert
PA   N.V. Innogenetics S.A., Belg.
SO   PCT Int. Appl., 133 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 9318054        A2    19930916       WO 1993-EP517    19930308
     WO 9318054        A3    19940217
         W:  AU, BB, BG, BR, CA, CZ, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO,
             NZ, PL, PT, RO, RU, SD, SK, UA, US
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
             BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG
     EP 564746         A1    19931013       EP 1992-400598   19920306
     CA 2102301        AA    19930907       CA 1993-2102301  19930308
     AU 9337463        A1    19931005       AU 1993-37463    19930308
     AU 671623         B2    19960905
     EP 589004         A1    19940330       EP 1993-906490   19930308
     EP 589004         B1    19990506
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
     JP 06505806       T2    19940630       JP 1993-515334   19930308
     BR 9305435        A     19941227       BR 1993-5435     19930308
     EP 891982         A2    19990120       EP 1998-202777   19930308
     EP 891982         A3    20000412
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE
     AT 179716         E     19990515       AT 1993-906490   19930308
     ES 2133392        T3    19990916       ES 1993-906490   19930308
```

US 5891640 A 19990406 US 1993-146028 19931122
PRAI EP 1992-400598 19920306
EP 1993-906490 19930308
WO 1993-EP517 19930308

AB Peptides corresponding to immunol. important epitopes (of bacterial or viral proteins) are detd. by (1) prepg. peptides corresponding to fragments of the protein of interest, (2) biotinylating the peptides, (3) binding the biotinylated peptides to a solid phase via interation with avidin or streptavidin, and (4) measuring antibodies which bind to the individual peptides. Processes for biotinylation of the peptides and for detn. of antibodies to hepatitis C virus (HCV), to HIV, and to HTLV-I and -II are also disclosed. HCV, HIV, HTLV-I, and HTLV-II peptide sequences are included. Use of the biotinylated peptides in the process of the invention makes the anchorage of the peptides to a solid support such that it leaves their essential amino acids free to be recognized by antibodies. In studies detg. binding of unbiotinylated peptides directly onto the wells of a polystyrene microtiter plate and binding of biotinylated peptides to wells coated with streptavidin, results demonstrated that antibody binding to the biotinylated peptide is superior to antibody binding to peptide coated directly onto the plastic.

SEQ ID NO 72

For Ref
EP537626
2pqp

L7 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2000 ACS
RN 149119-56-2 REGISTRY
FS PROTEIN SEQUENCE
SQL 174

SEQ 1 IPQAILDMIA GAHWGVLAGI AYFSMVGNWA KVLVVLLLFA GVDAETIVSG
51 GQAARAMSGL VSLFTPGAKQ NIQLINTNGS WHINSTALNC NESLNTGWLA
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101 GLIYQHKFNS SGCPERLASC RRLTDFDQGW GPISHANGSG PDQRPYCWHY
151 PPKPCGIVPA KSVCGPVYCF TPSP
HITS AT: 58-77

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=> s 149119-56-2/rn

             1 149119-56-2
             0 149119-56-2D
L14          1 149119-56-2/RN
                (149119-56-2 (NOTL) 149119-56-2D )

=> d bib ab
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L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
AN 1994:52649 CAPLUS
DN 120:52649
TI Diagnostic reagent for hepatitis C
IN Miyamura, Tatsuo; Saito, Izumu; Harada, Shizuko; Honda, Yoshikazu
PA National Institute of Health, Japan
SO Eur. Pat. Appl., 58 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 537626	A1	19930421	EP 1992-117191	19921008
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
	JP 05142231	A2	19930608	JP 1991-260824	19911008
	CA 2080213	AA	19930409	CA 1992-2080213	19921008
	US 5750331	A	19980512	US 1994-325630	19941019
	US 5747241	A	19980505	US 1995-460806	19950602
PRAI	JP 1991-260824	19911008			
	US 1992-956993	19921006			
	US 1994-325630	19941019			

AB A diagnostic reagent for hepatitis C, which detects an antibody induced by infection with hepatitis C virus, is disclosed. The reagent comprises the 2nd envelope protein or 1st nonstructural protein encoded by the hepatitis C gene and has a sugar chain (E2/NS1 glycoprotein). A method for detecting anti-hepatitis C antibody is also disclosed. The reagent of the invention makes the highly sensitive diagnosis of hepatitis C possible. E2/NS1 glycoprotein amino acid sequences, and corresponding nucleotide sequences, are included. E2/NS1 cDNA was cloned and expressed. Cells (13L20), which constantly produced the E2/NS1 protein, were cultured, fixed, and reacted with 59 serum samples from hepatitis C patients and then with a secondary antibody. Fluorescence microscopy showed that 53 of the samples were pos.; of the 59 samples, 6 were pos. using CHO cells constantly producing the 1st envelope region of hepatitis C virus.

WO93/18054
4 pgs

L7 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2000 ACS
RN 153299-61-7 REGISTRY
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 24

SEQ 1 ARAMSGLVSL FTPGAKQNIQ LINT
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HITS AT: 5-24

L7 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2000 ACS
RN 153299-59-3 REGISTRY
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 34

SEQ 1 AETIVSGGQA ARAMSGLVSL FTPGAKQNIQ LINT
====== ========== ====
HITS AT: 15-34